



## U.S. Fire Administration / National Fire Academy

# Coffee Break's Over!

## Self-Evaluation

(Answers on last page. Reference numbers in parentheses pertain to the Coffee Break Training bulletin of the same number.)

1. The liquefied petroleum gas term “cylinder” generally applies to small vessels that meet \_\_\_\_\_ standards. (Reference 2006-22)
  - a. American Society of Mechanical Engineers (ASME)
  - b. Environmental Protection Agency (EPA)
  - c. American Society of Testing and Materials (ASTM)
  - d. Society of Fire Protection Engineers (SFPE)
  - e. Department of Transportation (DOT)
2. Based on their chemical heat of combustion, Level 3 aerosol products are the most hazardous of the aerosol classifications. (Reference 2006-13)
 

T or F
3. The following persons or organizations should be notified whenever there is a planned impairment to a fire protection system. (Reference 2006-12)
  - a. Fire department
  - b. Insurance carrier
  - c. Building owner/manager
  - d. Risk manager
  - e. All of the above.
4. What is the minimum recommended size for a fuel tank supplying a 250 horsepower diesel fire pump driver? (Reference 2006-14)
  - a. 200 gallons
  - b. 250 gallons
  - c. 275 gallons
  - d. 500 gallons
5. Steel supports and pilings for Class I, II, and IIIA liquid tanks more than 12 inches above the ground must be protected to a fire resistance rating of \_\_\_\_\_, or be protected by an approved water spray system. (Reference 2006-18)
  - a. 20 minutes
  - b. 60 minutes
  - c. 120 minutes
  - d. 240 minutes
6. The fuel requirement for diesel fire pump drivers is based on the premise that the engine will burn about \_\_\_\_\_ per horsepower per hour of run time. (Reference 2006-14)
  - a. one pint
  - b. four pints
  - c. one gallon
  - d. two gallons
7. When conducting a fire sprinkler system main drain test, the main drain valve should be opened \_\_\_\_\_. (Reference 2006-15)
  - a. only enough to hear water flowing.
  - b. only enough to see water flow from the inspector’s test outlet.
  - c. only enough to see water flow from the drain outlet.
  - d. fully, and long enough for the supply side gauge to stabilize.
8. Protective posts for aboveground fuel storage tanks for refueling should be set at least \_\_\_\_\_ inches from the tank. (Reference 2006-21)
  - a. 36
  - b. 48
  - c. 50
  - d. 54
  - e. 60

9. The NFPA consensus standard outlining requirements for inspecting, testing and maintaining water-based fire protection systems is: (Reference 2006-15)
- a. NFPA 13   b. NFPA 13A   c. NFPA 14  
d. NFPA 20   e. NFPA 25
10. Tank supports for flammable and combustible liquid storage may be made of wood. (Reference 2006-18)
- T or F**
11. A Class D rated fire door assembly should be installed in exterior walls likely to suffer: (Reference 2006-16)
- a. no fire exposure  
b. light fire exposure.  
c. moderate fire exposure.  
d. severe fire exposure.  
e. none of the above.
12. In order to attach a pipe hanger, a sprinkler fitter scrapes the spray-on fire proofing off of the top chord of an open web steel joist that is required to have a one-hour rating. Can the fire inspector require that the spray-on material be reapplied? (Reference 2006-19)
- Yes or No**
13. A Class A rated fire door assembly has a fire resistance rating: (Reference 2006-16)
- a. that cannot be determined solely from this information.  
b. 30 minutes.  
c. 60 minutes  
d. 90 minutes.
14. E85 fuels may be stored in any listed underground storage tank. (Reference 2006-17)
- T or F**
15. Dispensing nozzles for ethanol-based fuels should not be made from: (Reference 2006-17)
- a. melamine or other Group C plastics  
b. aluminum  
c. fiberglass reinforced polystyrene or other Group A plastics  
d. all of the above
16. According to the Wood Truss Council of America, to avoid distorting the plane of trusses when storing them on the job site, trusses should be: (Reference 2006-20)
- a. stored flat, on level ground or on blocks.  
b. hung from a rafter assembly.  
c. nailed together with a cross-tied purlin.  
d. stored flat, on level ground or on rubber tires laid horizontally.
17. Guard posts for protecting aboveground flammable liquid tanks for dispensing fuel into motor vehicles should be protected with concrete-filled steel pipes at least \_\_\_\_\_ inches in diameter. (Reference 2006-21)
- a. 4   b. 6   c. 8   d. 10  
e. None of the above, aboveground tanks are protected by their self-contained concrete encasement.
18. A diesel-driven fire pump assembly should be provided with adequate fuel storage to test fire engine for 12 weeks, and still have enough fuel to power the pump to meet the \_\_\_\_\_ requirements of a fire protection system. (Reference 2006-14)
- a. 60-minute   b. 90-minute  
c. 120-minute   d. 180-minute
19. Level 2 aerosol products have a chemical heat of combustion greater than \_\_\_\_\_ Btu/lb, but less than \_\_\_\_\_ Btu/lb. (Reference 2006-13)
- a. 0, 5,000  
b. 5,000, 10,000  
c. 8,600, 13,000  
d. 13,000, 18,000  
e. none of the above.

20. Match the correct NFPA standard number to its topic:
- a. 20            \_\_\_ Water-Based Fire Protection Systems Testing
  - b. 25            \_\_\_ Fire Doors and Windows
  - c. 30B          \_\_\_ Fire Pumps
  - d. 80            \_\_\_ Aerosol Products
21. For liquefied petroleum gas vessels, the normal maximum volumetric fill limit is \_\_\_\_\_ percent of the vessel's capacity. (Reference 2006-22)
- a. 20            b. 80            c. 85
  - d. 90            e. 98.6
22. The two-hour fire resistance rating for flammable liquid tank steel supports and pilings more than 12 inches tall is evaluated using the: (Reference 2006-18)
- a. Standard Time Temperature Curve for Flammable and Combustible Liquids.
  - b. Test Method for Immediate Flame Spread Beneath Flammable and Combustible Liquid Tanks.
  - c. Cone Calorimeter Test for Fuel Depletion Results During Large Pool Fires.
  - d. Test Method for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies.

Answers: 1. e; 2. T; 3. e; 4. c; 5. c; 6. a;  
 7. d; 8. a; 9. e; 10. T; 11. d; 12. Yes; 13. a;  
 14. F; 15. b; 16. a; 17. a; 18. c; 19. c; 20. b-d-d-c  
 (top to bottom); 21. a; 22. d